Metamorphic Rock

- **The word "metamorphic" means to "_____ _____".**
- **In metamorphic rocks the structure, texture, or composition of the rock has changed.**
- **Rock can undergo metamorphism by _____ or _____ alone, or by a combination of the two.**
- **Metamorphism takes place at depths greater than 2 km and temperatures between _____°C and _____°C.**

Types of Metamorphism:

- **_____ – Rock that comes into contact with _____ and is "cooked".**
- **_____ – Occurs when enormous pressure builds up on a rock buried deep within the Earth or when pieces of the Earth's _____ collide.**

Composition of Metamorphic Rock:

- **The composition of metamorphic rock changes when minerals that were present in the original rock are no longer _____ in the new environment.**
- **The original minerals change into minerals that are more stable in the new conditions.**
- **Some minerals form only at certain temperatures and pressures. These minerals are known as _____ *minerals*.**
- **Index minerals present in a metamorphic rock allow scientists to estimate the temperature and pressure conditions the rock formed under.**

Types of Metamorphic Rock:

- **Foliated – The texture of metamorphic rock in which the mineral grains are _____ like the pages of a book.**
  - **Pressure aligns the grains in a foliated metamorphic rock.**
    EX: gneiss, schist, slate

- **Nonfoliated – The texture of metamorphic rock in which mineral grains show no alignment.**
  - **Usually made of just one or a few minerals.**
    EX: marble, quartzite